

Manfred Schreiner

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,458
citations

361413

20
h-index

330143

37
g-index

54
all docs

54
docs citations

54
times ranked

1363
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray fluorescence spectrometry in art and archaeology. <i>X-Ray Spectrometry</i> , 2000, 29, 3-17.	1.4	229
2	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 2001, 130, 1457-1462.	2.4	91
3	Effects of Air Pollution on Materials and Cultural Heritage: ICP Materials Celebrates 25 Years of Research. <i>International Journal of Corrosion</i> , 2012, 2012, 1-16.	1.1	79
4	Accelerated UV ageing studies of acrylic, alkyd, and polyvinyl acetate paints: Influence of inorganic pigments. <i>Microchemical Journal</i> , 2016, 124, 949-961.	4.5	72
5	Photochemical degradation study of polyvinyl acetate paints used in artworks by Py-GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 97, 158-163.	5.5	70
6	Scanning electron microscopy and energy dispersive analysis: applications in the field of cultural heritage. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 737-747.	3.7	69
7	UN/ECE ICP Materials Dose-response Functions for the Multi-pollutant Situation. <i>Water, Air and Soil Pollution</i> , 2007, 7, 249-258.	0.8	69
8	Energy Dispersive X-Ray Fluorescence Analysis and X-Ray Microanalysis of Medieval Silver Coins. <i>Mikrochimica Acta</i> , 2000, 133, 165-170.	5.0	57
9	A comparison study of alkyd resin used in art works by Py-GC/MS and GC/MS: The influence of aging. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 104, 441-447.	5.5	48
10	UV ageing studies: evaluation of lightfastness declarations of commercial acrylic paints. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1567-1584.	3.7	46
11	Characterization and identification of acrylic binding media: influence of UV light on the ageing process. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2961-2976.	3.7	43
12	Influence of phthalocyanine pigments on the photo-degradation of alkyd artists' paints under different conditions of artificial solar radiation. <i>Polymer Degradation and Stability</i> , 2016, 134, 157-168.	5.8	36
13	Trimethylsulfonium hydroxide as derivatization reagent for the chemical investigation of drying oils in works of art by gas chromatography. <i>Journal of Chromatography A</i> , 2004, 1047, 111-116.	3.7	35
14	Characterisation of ancient and art nouveau glass samples by Pb isotopic analysis using laser ablation coupled to a magnetic sector field inductively coupled plasma mass spectrometer (LA-ICP-SF-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 838-843.	3.0	35
15	A LabVIEW-controlled portable x-ray fluorescence spectrometer for the analysis of art objects. <i>X-Ray Spectrometry</i> , 2006, 35, 280-286.	1.4	33
16	Identification of copper phthalocyanine blue polymorphs in unaged and aged paint systems by means of micro-Raman spectroscopy and Random Forest. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 419-425.	3.9	30
17	Multianalytical approach to explain the darkening process of hematite pigment in paintings from ancient Pompeii after accelerated weathering experiments. <i>Analytical Methods</i> , 2014, 6, 372-378.	2.7	29
18	Boric Acid: A High Potential Candidate for Thermochemical Energy Storage. <i>Energies</i> , 2019, 12, 1086.	3.1	25

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19	Further metallurgical analyses on silver coins of Trajan (AD 98â€“117). <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 984.	3.0	23
20	Pigment and Binder Concentrations in Modern Paint Samples Determined by IR and Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7401-7407.	13.8	22
21	Photostability and influence of phthalocyanine pigments on the photodegradation of acrylic paints under accelerated solar radiation. <i>Polymer Degradation and Stability</i> , 2017, 146, 13-23.	5.8	20
22	The multistep decomposition of boric acid. <i>Energy Science and Engineering</i> , 2020, 8, 1650-1666.	4.0	20
23	The efficiency of micro-Raman spectroscopy in the analysis of complicated mixtures in modern paintings: Munch's and Kupka's paintings under study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 156, 36-46.	3.9	19
24	Spectroscopic methods for the identification and photostability study of red synthetic organic pigments in alkyd and acrylic paints. <i>Microchemical Journal</i> , 2018, 139, 155-163.	4.5	19
25	Combined LA-ICP-MS/LIBS: powerful analytical tools for the investigation of polymer alteration after treatment under corrosive conditions. <i>Scientific Reports</i> , 2020, 10, 12513.	3.3	18
26	Multivariate analysis and laser-induced breakdown spectroscopy (LIBS): a new approach for the spatially resolved classification of modern art materials. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3187-3198.	3.7	18
27	Secondary Ion Mass Spectrometer Analysis of Potash-Lime-Silica Glasses Leached in Hydrochloric and Sulfuric Acids. <i>Journal of the American Ceramic Society</i> , 1989, 72, 1713-1715.	3.8	17
28	Identification and Classification of Iridescent Glass Artifacts with XRF and SEM/EDX. <i>Mikrochimica Acta</i> , 2000, 133, 151-157.	5.0	15
29	Surface-enhanced Raman spectroscopy of indanthrone and flavanthrone. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1557-1563.	2.5	15
30	ToF-SIMS analysis for leaching studies of potash-lime-silica glass. <i>Applied Surface Science</i> , 2013, 282, 195-201.	6.1	15
31	Decoding the biological information contained in two ancient Slavonic parchment codices: an added historical value. <i>Environmental Microbiology</i> , 2020, 22, 3218-3233.	3.8	15
32	Thermal analysis of the interaction of inorganic pigments with p(nBA/MMA) acrylic emulsion before and after UV ageing. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 33-43.	3.6	14
33	A novel methodological approach for the assessment of surface cleaning of acrylic emulsion paints. <i>Microchemical Journal</i> , 2018, 141, 25-39.	4.5	13
34	Studies on the effect of dry-heat ageing on parchment deterioration by vibrational spectroscopy and micro hot table method. <i>Polymer Degradation and Stability</i> , 2020, 182, 109375.	5.8	13
35	Azurite in medieval illuminated manuscripts: a reflection-FTIR study concerning the characterization of binding media. <i>Heritage Science</i> , 2019, 7, 21.	2.3	12
36	In situ time-lapse synchrotron radiation X-ray diffraction of silver corrosion. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 694-701.	3.0	11

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37	SIMS and TM-AFM Studies on Weathered Cu, Zn, and Brass (CuZn10, CuZn30) Surfaces. Instrumentation Science and Technology, 2003, 21, 49-62.	0.8	10
38	Photodegradation Kinetics of Alkyd Paints: The Influence of Varying Amounts of Inorganic Pigments on the Stability of the Synthetic Binder. Frontiers in Materials, 2020, 7, .	2.4	9
39	SO ₂ - and NO _x - initiated atmospheric degradation of polymeric films: Morphological and chemical changes, influence of relative humidity and inorganic pigments. Microchemical Journal, 2021, 164, 106087.	4.5	9
40	The Kiev Folia: An interdisciplinary approach to unravelling the past of an ancient Slavonic manuscript. International Biodeterioration and Biodegradation, 2022, 167, 105342.	3.9	7
41	Materials and techniques used for the "Vienna Moamin" multianalytical investigation of a book about hunting with falcons from the thirteenth century. Heritage Science, 2021, 9, 87.	2.3	5
42	Comprehensive Multi-Analytical Investigations on the Vietnamese lacquered Wall-Panel "The Return of the Hunters" by Jean Dunand. Scientific Reports, 2019, 9, 18837.	3.3	4
43	X-ray fluorescence spectrometry in art and archaeology. , 2000, 29, 3.		4
44	Multi-Analytical Investigations of Andy Warhol's "Orange Car Crash": Polymeric Materials in Modern Paints. Polymers, 2022, 14, 633.	4.5	4
45	The Effect of Pollutant Gases on Surfactant Migration in Acrylic Emulsion Films: A Comparative Study and Preliminary Evaluation of Surface Cleaning. Polymers, 2021, 13, 1941.	4.5	2
46	What about Phenol Formaldehyde (PF) Foam in Modern-Contemporary Art? Insights into the Unaged and Naturally Aged Material by a Multi-Analytical Approach. Polymers, 2021, 13, 1964.	4.5	2
47	The effect of new LED lighting systems on the colour of modern paints. Scientific Reports, 2021, 11, 22375.	3.3	1
48	Pigment and Binder Concentrations in Modern Paint Samples Determined by IR and Raman Spectroscopy. Angewandte Chemie, 2018, 130, 7523-7529.	2.0	0
49	Non-Destructive Analysis of Artifacts by Using XRF, FTIR, and SEM/EDX. , 2004, , 180-209.		0
50	Air Pollution Damage to Glass. Air Pollution Reviews, 2016, , 165-192.	0.1	0
51	EXPERIMENTAL STUDY ON CHEMICAL AND COLORIMETRIC CHANGES OF ART MATERIALS BY LED IRRADIATION. , 2019, , .		0
52	A Multi-Analytical Approach for Studying the Effect of New LED Lighting Systems on Modern Paints: Chemical Stability Investigations. Polymers, 2021, 13, 4441.	4.5	0